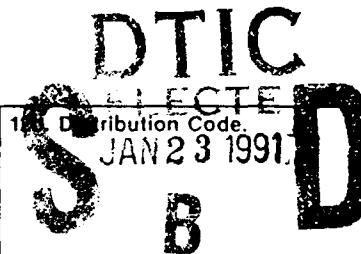


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13. Abstract (Maximum 200 words). A primary goal of REX is the description of the eddy-mean energetics of the Gulf Stream region from Cape Hatteras to the Grand Banks from in-situ, remotely-sensed, and ocean model studies. We have obtained estimates of mean and eddy available potential and kinetic energy using three years of data from the GEOSAT Exact-Repeat Missions (ERM). Temporal mean APE of the total water column is computed from annual and interannual mean deviations in the surface topography relative to reference estimates of the local geoid profile along GEOSAT-ERM collinear ground tracks. We have also examined complete energetics from a primitive equation ocean model at 1/8th degree horizontal resolution in statistical equilibrium for a comparable time span. Finally, we have analyzed data from arrays of inverted echo sounders and bottom pressure gauges deployed during REX. Eddy-mean energetics intercomparison between model and observations, including historical data, are discussed. 			
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